

CLAIMS

What is claimed is:

1. A device for minimizing the roll movements of a vehicle body with wheel suspensions, including:

a torsion-resistant rod member (23) which is mounted pivotably on the vehicle body (6) and is oriented approximately transversely to the vehicle longitudinal direction, said rod member (23) having at the two ends,

two parallel and bend-resistant cantilever arms (21, 22) connected to said opposite ends and extending approximately horizontally from said opposite ends when the vehicle is in a neutral position, each cantilever arm (21, 22) having a free end, and

an approximately vertically oriented spring/damper unit (40, 40') articulated to each of said free ends and operatively connected to an axle or wheel-guide component of a wheel suspension of the vehicle,

- each of said spring/damper units (40) comprising a cylinder/piston structure (40, 40') filled being with a hydraulic fluid, with

- the piston (53) of the individual cylinder/piston structure (40, 40') being centered, free of play, in the respective cylinder (41) so as to be pre-stressed between at least two spring elements (60).

2. The device as claimed in claim 1, wherein the rod member (23) and the cantilever arms (21, 22) form a one-part coupling yoke (20).

3. The device as claimed in claim 1, wherein separate communication passages with at least one automatically opening throttle valve (55) extend through said piston (53) for each direction of piston movement of said piston (53).

4. The device as claimed in claim 1, wherein the damping fluid is a rheological fluid, and the valves (55) can be controlled by at least one of mechanical, electrical or magnetic field means.

5. The device as claimed in claim 1, wherein the coupling yoke (20) is pivotally supported on the vehicle body by bearings (31).

6. The device as claimed in claim 1, wherein the coupling yoke (20) is divided in the plane of the vehicle longitudinal axis (5) into yoke parts, and these coupling yoke parts are pivotably supported independently of one another.